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**OEPA DIRECTOR'S FINDINGS AND ORDERS -  
TECHNICAL PROGRESS REPORT FOR JULY AND  
AUGUST, 1987**

**09/18/87**

**DOE 419-87  
DOE/OEPA  
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LETTER**



Department of Energy  
Oak Ridge Operations  
P. O. Box E  
Oak Ridge, Tennessee 37831

Bi-monthly report

2649

SEP 18 1987  
DOE 419-87

Mr. Thomas Winston, District Chief  
Ohio Environmental Protection Agency  
7 East Fourth Street  
Dayton, Ohio 45402-2086

**OEPA DIRECTOR'S FINDINGS AND ORDERS - TECHNICAL PROGRESS REPORT  
FOR JULY AND AUGUST, 1987**

Dear Mr. Winston:

Enclosed is the bi-monthly technical progress report describing  
FMPC progress to comply with the subject orders.

If you have any questions on this report, please let me know.

Sincerely,

*James A. Reafender*  
James A. Reafender  
Site Manager

Enclosure  
As stated above

cc w/encl.

Bill Franz, USEPA-5  
Graham Mitchell, OEPA  
Margaret Wilson, SE-31, ORO  
Bob Weidner, NLO  
Bob Conner, WMCO

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*[initials]*

**DIRECTOR'S FINDINGS AND ORDERS**  
**FMPC BI-MONTHLY TECHNICAL PROGRESS REPORT**  
**JULY-AUGUST 1987**

Order 16 of the Ohio EPA Director's Findings and Orders requires that bi-monthly technical progress reports be issued describing actions taken to comply with the Director's Findings and Orders during the previous two months. This third report fulfills the requirements of Order 16 by describing actions taken at the Feed Materials Production Center during the period July 1, 1987 through August 31, 1987.

GENERAL

Work was initiated to clean, pressure test, and chemically grout the FMPC outfall pipeline in accordance with the requirements of Order 14. During the television inspection of the pipeline, a heavy deposit of scale was discovered along the entire invert of the pipeline. All available cleaning techniques were exhausted in the attempt to adequately remove the scale. As a result of the scale, pressure testing of the pipeline cannot be performed to demonstrate the integrity of the outfall. Additionally, the evaluation of the gravel pack surrounding the pipeline cannot be conducted as defined in the Work Plan submitted in response to Order 14. Alternatives are currently being investigated at the FMPC to fulfill the requirements of Order 14.

The installation of the temporary storage tanks and piping systems to divert flows from the bionitrification surge lagoon has been completed. The discharge piping associated with the temporary tanks is under construction. The temporary storage tank system is anticipated to be completed so as to receive wastewater flows by September 30, 1987.

A technical assistance subcontract was awarded to assist the FMPC in preparation of the Best Management Practices (BMP) Plan in accordance with Order 9. Actions associated with the preparation of the BMP plan were initiated in September, 1987.

Configuration of the SWIFT-III groundwater model has been completed for performance of the Zone of Influence Study pursuant to Order 14B. Verification modelling runs are currently being performed. A report describing actions taken under Order 14, through September, 1987, will be issued to Ohio EPA by October 1, 1987.

To date, all Director's Findings and Orders deliverables have been provided to the Ohio EPA on or ahead of schedule.

STATUS OF ACTIONS

<u>Order</u>	<u>Description</u>	<u>Date Due to EPA</u>	<u>Status</u>
1	Cease discharge of "sewage", "industrial waste", or "other waste" to waste pit 5 or the Clearwell.	29-Mar-87	Complete. Production discharge to waste pit 5 or the Clearwell ceased on 24-Feb-87. K-65 ditch sump flow ceased with installation of new piping changes on 24-Mar-87.

<u>Order</u>	<u>Description</u>	<u>Date Due to EPA</u>	<u>Status</u>
2	Install a new liner in the biodenitrification surge lagoon.	1-Oct-88	In progress. An integrated work plan was developed for installation of a new liner.
	Until new liner is operable, cease accumulation of waste water in lagoon.	30-Sep-87	In progress. Installation of the temporary tanks is complete. Temporary piping feed to the tanks is complete. Discharge piping installation is proceeding on a schedule which will allow the tanks to accept wastewater by 30-Sept-87.
3	No waste water from...shall be discharged or placed into Paddy's Run.	N/A	Complete. No water from the specified areas is being discharged or placed into Paddy's Run.
4	Issue a report describing solids loading & settling rates in the biodenitrification surge lagoon and the stormwater retention basin. Include a maintenance schedule for solids removal.	1-Jun-87	Complete. A report was issued to OEPA on 01-Jun-87.
5	Issue a contingency plan describing actions to be taken to minimize environmental impacts to Paddy's Run due to the existing stormwater retention system.		
	a. Submit a scope of work to Ohio EPA for review.	30-Apr-87	Complete. A work plan was provided to the Ohio EPA on 29-Apr-87 describing actions taken to investigate techniques which can be utilized to minimize environmental impacts to Paddy's Run. Ohio EPA comments on the Work Plan were received via letter, Ms. J. A. Grezyb to Mr. Rick Collier, dated 27-May-87. A revised Work Plan incorporating OEPA comments was transmitted to OEPA.

<u>Order</u>	<u>Description</u>	<u>Date Due to EPA</u>	<u>Status</u>
	b. Issue final report to the Ohio EPA.	1-Oct-87	In progress.
6	Submit detailed plans and a PTI application for a stormwater retention system.	1-Oct-87	In progress. An integrated work plan was prepared for installation of the stormwater retention system. The preparation of a PTI application incorporating detailed plans is in the process of being prepared.
7	Issue a contingency plan describing actions to be taken to minimize environmental impacts to Paddy's Run due to the new stormwater retention system. This item is to be submitted as part of the PTI application.	1-Oct-87	In progress. A contingency plan is being prepared in conjunction with work performed for Order 5.
8	Install a stormwater retention system able to collect production area runoff from a 10 year, 24 hour storm event.	31-Dec-88	In progress. An integrated work plan was prepared for installation of the stormwater retention system.
9	Issue a best management practices plan for control of wastes that may be discharged from the FMPC.	1-Mar-88	In progress. A best management practices committee was formed to support preparation of the plan. A technical assistance contract has been awarded. Actions associated with the preparation of the BMP were initiated September 1, 1987.
10	Implement the BMP plan following Ohio EPA approval.	TBE	
11	Maintain the BMP plan.	N/A	
12	Amend the BMP plan as necessary.	N/A	
13	If requested by Ohio EPA, modify the BMP plan within 45 days.	TBE	

<u>Order</u>	<u>Description</u>	<u>Date Due to EPA</u>	<u>Status</u>
14	Perform a study of FMPC discharge to the Great Miami River.		
A.	Study the integrity of the FMPC outfall.	1-Oct-87	In progress. Work was initiated on 8-Aug-87 to clean, pressure test, and grout the outfall. A heavy buildup of scale was found along the interior of the pipeline. Due to this buildup, pressure testing cannot be conducted on the pipeline. Alternatives are currently being investigated to meet the intent of Orders 14A.
B.	Conduct Zone of Influence Study on FMPC discharge.	1-Oct-87	In progress. Configuration of the SWIFT III Model for the FMPC is complete. Verification modelling runs in process. Interim report on actions taken under 14B to be issued 1-Oct-87.
C.	Study the gravel pack	1-Oct-87	As a result of the scale buildup along the invert of the outfall, the evaluation of the gravel pack cannot be completed as previously indicated in the Work Plan submitted in response to Order 14C. Alternatives are currently being investigated to meet the intent of Order 14C.
D.	Issue final report to the Ohio EPA.	1-Aug-88	In progress.
15	Implement alternatives recommended by report, required by Order 14, as approved by Ohio EPA.	TBE	
16	Issue bi-monthly technical progress reports.	20-July-87	Complete. Third bi-monthly report issued to the Ohio EPA.

<u>Order</u>	<u>Description</u>	<u>Date Due to EPA</u>	<u>Status</u>
17	All orders shall be implemented by the DOE and WMC0.	N/A	In progress. See action items 1 through 16.

N/A: No Action Required (this is utilized when no specific or dated FMPC action is required to comply with the order).

TBE: To Be Established (this is utilized when a schedule is dependent upon prior Ohio EPA actions).